

# DC Gear Motor · 2233N5M-22G- · $\varnothing$ 22 mm

**Specifications** Please consult your authorized sales representative for custom specifications.

Type			90-3.0-001	92-6.0-001	90-9.0-001
Rated voltage	U	V	3	6	9
Terminal resistance	R	Ohm	0.45	0.94	2.7
No load speed	$n_0$	rpm	9000	9200	9000
No load current	$I_0$	mA	35	27	22
Stall torque	$T_s$	mNm	21	39.44	31.4
Rated torque	T	mNm	5	8	6
Rated speed	n	rpm	6700	7100	7100
Rated current	I	mA	1600	1300	650
Power	$P_{max}$	W	5.0	9.57	7.5
Max. efficiency	$\eta$	%	86	87	84
Back-EMF constant	$K_E$	mV/rpm	0.33	0.65	0.99
Torque constant	$K_T$	mNm/A	3.17	6.21	9.49
Rotor inertia	$J_{Rotor}$	$gcm^2$	2.2	3.0	2.8
Speed regulation constant	$\Delta n / \Delta T$	rpm/mNm	429	233	287
Length	$L_1$	mm	33.2	33.2	33.2
<b>Operational conditions*</b>					
Temperature range	T	$^{\circ}C$	-20 ~ +85		

\* at  $25^{\circ}C$

Gearbox - type PGM22-	ratio	5	25	77.1	246	1079
Output torque, continuous, max.	$M_{2max}$ [mNm]	100	300	400	500	500
Output torque, intermittent, max.	$M_{2max}$ [mNm]	300	900	1200	1500	1500
Direction of rotation		=	=	=	=	=
Efficiency	$\eta$ [%]	85	72	61	52	44
Length $L_2$	mm	23.3	29.5	35.7	41.9	48.1
Radial load [5 mm from flange]	N	0.7				
Axial load	N	10.0				

### Dimension (mm) · 2233N5M-22G:

